

*Barbara*

#8

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/507,928  
Source: PG/10  
Date Processed by STIC: 6/10/05

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PCT

## RAW SEQUENCE LISTING

DATE: 06/10/2005

PATENT APPLICATION: US/10/507,928

TIME: 10:08:51

Input Set : A:\Sequence Listing

Output Set: N:\CRF4\06102005\J507928.raw

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3 <110> APPLICANT: POWDERMED LIMITED AND GLAXO GROUP LIMITED
5 <120> TITLE OF INVENTION: ADJUVANT
7 <130> FILE REFERENCE: N.88232B GCW
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/507,928
C--> 9 <141> CURRENT FILING DATE: 2004-09-17
9 <160> NUMBER OF SEQ ID NOS: 12
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 12
15 <212> TYPE: PRT
16 <213> ORGANISM: Artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: HBsAg in BLAB/C mice
21 <400> SEQUENCE: 1
23 Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu
24 1                5                10
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 9
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: HSV CD8 in BLAB/C mice
35 <400> SEQUENCE: 2
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38 1                5
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42 <211> LENGTH: 1503
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: nucleotide sequence of p55 gag insert in pGagOptrpr2
49 <400> SEQUENCE: 3
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52 ctgcgccccg gaggcaaaaa gaaatacaag ctcaagcata tcgtgtgggc ctcgaggagg      120
54 cttgaacggt ttgccgtgaa cccaggcctg ctggaaacat ctgagggatg tcgccagatc      180
56 ctggggcaat tgcagccatc cctccagacc gggagtgaag agctgaggtc cttgtataac      240
58 acagtggcta ccctctactg cgtacaccag aggatcgaga ttaaggatac caaggaggcc      300
60 ttggacaaaa ttgaggagga gcaaaacaag agcaagaaga aggcccagca ggcagctgct      360
62 gacactgggc atagcaacca ggtatcacag aactatccta ttgtccaaaa cattcagggc      420
64 cagatggttc atcaggccat cagcccccg acgctcaatg cctgggtgaa ggttgtcgaa      480
66 gagaaggcct tttctcctga gggtatcccc atgttctccg ctttgagtga gggggccact      540
68 cctcaggacc tcaatacaat gcttaatacc gtgggcggcc atcaggccgc catgcaaagt      600
70 ttgaaggaga ctatcaacga ggaggcagcc gagtgggaca gattgcatcc cgtccacgct      660

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74 tctacactgc aagagcaa atcgatggatg accaacaatc ctcccatccc agttggagaa 780
76 atctataaac ggtggatcat tctcgggtctc aataaaattg ttagaatgta ctctccgaca 840
78 tccatccttg acattagaca gggacccaaa gagcctttta gggattacgt cgaccggttt 900
80 tataagacc tgcgagcaga gcaggcctct caggaggtca aaaactggat gacggagaca 960
82 ctctgtgtac agaagcgtaa ccccgactgc aaaacaatct tgaaggcact aggcccggt 1020
84 gccaccctgg aagagatgat gaccgcctgt cagggagtag gcggaccggg acacaaagcc 1080
86 agagtgttgg ccgaagccat gagccagggtg acgaactccg caaccatcat gatgcagaga 1140
88 gggaacttcc gcaatcagcg gaagatcgtg aagtgtttca attgcggcaa ggagggtcat 1200
90 accgcccgc actgtcgggc ccctaggaag aaagggtgtt ggaagtgcgg caaggaggga 1260
92 caccagatga aagactgtac agaacgacag gccaattttc ttggaaagat ttggccgagc 1320
94 tacaagggga gacctggtta ttctctgcaa agcaggcccg agcccaccgc cccctctgag 1380
96 gaatccttca ggtccggagt ggagaccaca acgcctcccc aaaaacagga accaatcgac 1440
98 aaggagctgt accctttaac ttctctgcgt tctctctttg gcaacgacc gtcgtctcaa 1500
100 taa 1503

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103 &lt;210&gt; SEQ ID NO: 4

104 &lt;211&gt; LENGTH: 500

105 &lt;212&gt; TYPE: PRT

106 &lt;213&gt; ORGANISM: Artificial sequence

108 &lt;220&gt; FEATURE:

109 &lt;223&gt; OTHER INFORMATION: amino acid sequence of p55 gag insert in pGagOptpr2

111 &lt;400&gt; SEQUENCE: 4

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113 Met Gly Ala Arg Ala Ser Val Leu Ser Gly Gly Glu Leu Asp Arg Trp
114 1 5 10 15
117 Glu Lys Ile Arg Leu Arg Pro Gly Gly Lys Lys Lys Tyr Lys Leu Lys
118 20 25 30
121 His Ile Val Trp Ala Ser Arg Glu Leu Glu Arg Phe Ala Val Asn Pro
122 35 40 45
125 Gly Leu Leu Glu Thr Ser Glu Gly Cys Arg Gln Ile Leu Gly Gln Leu
126 50 55 60
129 Gln Pro Ser Leu Gln Thr Gly Ser Glu Glu Leu Arg Ser Leu Tyr Asn
130 65 70 75 80
133 Thr Val Ala Thr Leu Tyr Cys Val His Gln Arg Ile Glu Ile Lys Asp
134 85 90 95
137 Thr Lys Glu Ala Leu Asp Lys Ile Glu Glu Gln Asn Lys Ser Lys
138 100 105 110
141 Lys Lys Ala Gln Gln Ala Ala Ala Asp Thr Gly His Ser Asn Gln Val
142 115 120 125
145 Ser Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His
146 130 135 140
149 Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu
150 145 150 155 160
153 Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser
154 165 170 175
157 Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly
158 180 185 190
161 Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu
162 195 200 205
165 Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala

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170 225      230      235      240
173 Ser Thr Leu Gln Glu Ile Gly Trp Met Thr Asn Asn Pro Pro Ile
174      245      250      255
177 Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys
178      260      265      270
181 Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly
182      275      280      285
185 Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu
186      290      295      300
189 Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr
190 305      310      315      320
193 Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala
194      325      330      335
197 Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly
198      340      345      350
201 Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser
202      355      360      365
205 Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg
206      370      375      380
209 Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His
210 385      390      395      400
213 Thr Ala Arg Asn Cys Arg Ala Pro Arg Lys Lys Gly Cys Trp Lys Cys
214      405      410      415
217 Gly Lys Glu Gly His Gln Met Lys Asp Cys Thr Glu Arg Gln Ala Asn
218      420      425      430
221 Phe Leu Gly Lys Ile Trp Pro Ser Tyr Lys Gly Arg Pro Gly Asn Phe
222      435      440      445
225 Leu Gln Ser Arg Pro Glu Pro Thr Ala Pro Pro Glu Glu Ser Phe Arg
226      450      455      460
229 Ser Gly Val Glu Thr Thr Thr Pro Pro Gln Lys Gln Glu Pro Ile Asp
230 465      470      475      480
233 Lys Glu Leu Tyr Pro Leu Thr Ser Leu Arg Ser Leu Phe Gly Asn Asp
234      485      490      495
237 Pro Ser Ser Gln
238      500
241 <210> SEQ ID NO: 5
242 <211> LENGTH: 1515
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: nucleotide sequence of the p17/24trNEF insert in
p17/24trNEF1
249 <400> SEQUENCE: 5
250 atgggtgcga gagcgtcagt attaagcggg ggagaattag atcgatggga aaaaattcgg 60
252 ttaaggccag ggggaaagaa aaaatataaa ttaaacata tagtatgggc aagcagggag 120
254 ctagaacgat tcgcagttaa tcctggcctg ttagaaacat cagaaggctg tagacaaata 180
256 ctgggacagc tacaaccatc ccttcagaca ggatcagaag aacttagatc attatataat 240
258 acagtagcaa ccctctattg tgtgcatcaa aggatagaga taaaagacac caaggaagct 300

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260 ttagacaaga tagaggaaga gcaaaacaaa agtaagaaaa aagcacagca agcagcagct 360
262 gacacaggac acagcaatca ggtcagccaa aattacccta tagtgcagaa catccagggg 420
264 caaatggtac atcaggccat atcacctaga actttaaatg catgggtaaa agtagtagaa 480
266 gagaaggctt tcagcccaga agtgataccc atgttttcag cattatcaga aggagccacc 540
268 ccacaagatt taaacaccat gctaaacaca gtggggggag atcaagcagc catgcaaatg 600
270 ttaaaagaga ccatcaatga ggaagctgca gaatgggata gagtgcattcc agtgcattgca 660
272 gggcctattg caccaggcca gatgagagaa ccaaggggaa gtgacatagc aggaactact 720
274 agtacccttc aggaacaaat aggatggatg acaaataatc cacctatccc agtaggagaa 780
276 atttataaaa gatggataat cctgggatta aataaaatag taagaatgta tagccctacc 840
278 agcattcttg acataagaca aggacaaaaa gaacccttta gagactatgt agaccggttc 900
280 tataaaactc taagagccga gcaagcttca caggaggtaa aaaattggat gacagaaacc 960
282 ttgttggtcc aaaatgcgaa cccagattgt aagactatgt taaaagcatt gggaccagcg 1020
284 gctacactag aagaaatgat gacagcatgt caggagtagt gaggaccggg ccataaggca 1080
286 agagtttttg tgggttttcc agtcacacct caggtagctt taagaccaat gacttacaag 1140
288 gcagctgtag atcttagcca ctttttaaaa gaaaaggggg gactggaagg gctaattcac 1200
290 tcccaaagaa gacaagatat ccttgatctg tggatctacc acacacaagg ctacttccct 1260
292 gattggcaga actacacacc agggccaggg gtcagatata cactgacctt tggatggtgc 1320
294 tacaagctag taccagttga gccagataag gtagaagagg ccaataaagg agagaacacc 1380
296 agcttgttac accctgtgag cctgcatggg atggatgacc cggagagaga agtggttagag 1440
298 tggaggtttg acagccacct agcatttcat cacgtggccc gagagctgca tccggagtag 1500
300 ttcaagaact gctga 1515

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303 &lt;210&gt; SEQ ID NO: 6

304 &lt;211&gt; LENGTH: 504

305 &lt;212&gt; TYPE: PRT

306 &lt;213&gt; ORGANISM: Artificial sequence

308 &lt;220&gt; FEATURE:

309 &lt;223&gt; OTHER INFORMATION: amino acid sequence of the p17/24trNEF insert in p17/24trNEF1

311 &lt;400&gt; SEQUENCE: 6

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313 Met Gly Ala Arg Ala Ser Val Leu Ser Gly Gly Glu Leu Asp Arg Trp
314 1 5 10 15
317 Glu Lys Ile Arg Leu Arg Pro Gly Gly Lys Lys Lys Tyr Lys Leu Lys
318 20 25 30
321 His Ile Val Trp Ala Ser Arg Glu Leu Glu Arg Phe Ala Val Asn Pro
322 35 40 45
325 Gly Leu Leu Glu Thr Ser Glu Gly Cys Arg Gln Ile Leu Gly Gln Leu
326 50 55 60
329 Gln Pro Ser Leu Gln Thr Gly Ser Glu Glu Leu Arg Ser Leu Tyr Asn
330 65 70 75 80
333 Thr Val Ala Thr Leu Tyr Cys Val His Gln Arg Ile Glu Ile Lys Asp
334 85 90 95
337 Thr Lys Glu Ala Leu Asp Lys Ile Glu Glu Glu Gln Asn Lys Ser Lys
338 100 105 110
341 Lys Lys Ala Gln Gln Ala Ala Ala Asp Thr Gly His Ser Asn Gln Val
342 115 120 125
345 Ser Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His
346 130 135 140
349 Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu
350 145 150 155 160
353 Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser

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Input Set : A:\Sequence Listing

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354          165          170          175
357 Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly
358          180          185          190
361 Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu
362          195          200          205
365 Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala
366          210          215          220
369 Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr
370 225          230          235          240
373 Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile
374          245          250          255
377 Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys
378          260          265          270
381 Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly
382          275          280          285
385 Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu
386          290          295          300
389 Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr
390 305          310          315          320
393 Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala
394          325          330          335
397 Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly
398          340          345          350
401 Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Val Gly Phe Pro Val
402          355          360          365
405 Thr Pro Gln Val Pro Leu Arg Pro Met Thr Tyr Lys Ala Ala Val Asp
406          370          375          380
409 Leu Ser His Phe Leu Lys Glu Lys Gly Gly Leu Glu Gly Leu Ile His
410 385          390          395          400
413 Ser Gln Arg Arg Gln Asp Ile Leu Asp Leu Trp Ile Tyr His Thr Gln
414          405          410          415
417 Gly Tyr Phe Pro Asp Trp Gln Asn Tyr Thr Pro Gly Pro Gly Val Arg
418          420          425          430
421 Tyr Pro Leu Thr Phe Gly Trp Cys Tyr Lys Leu Val Pro Val Glu Pro
422          435          440          445
425 Asp Lys Val Glu Glu Ala Asn Lys Gly Glu Asn Thr Ser Leu Leu His
426          450          455          460
429 Pro Val Ser Leu His Gly Met Asp Asp Pro Glu Arg Glu Val Leu Glu
430 465          470          475          480
433 Trp Arg Phe Asp Ser His Leu Ala Phe His His Val Ala Arg Glu Leu
434          485          490          495
437 His Pro Glu Tyr Phe Lys Asn Cys
438          500
441 <210> SEQ ID NO: 7
442 <211> LENGTH: 1518
443 <212> TYPE: DNA
444 <213> ORGANISM: Artificial sequence
446 <220> FEATURE:
447 <223> OTHER INFORMATION: nucleotide sequence of the p17/24opt/trNef insert in
p17/24opt/tr

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/507,928

DATE: 06/10/2005

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Input Set : A:\Sequence Listing

Output Set: N:\CRF4\06102005\J507928.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date